

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A client aware authentication system in a wireless network, comprising:
 - ~~a wireless server;~~
 - a plurality of classes of wireless clients, each of said plurality of classes of wireless clients having unique authentication parameters;
 - a wireless server configured to provide a plurality of services to a plurality of classes of wireless clients, wherein one of the plurality of services comprises automatic client type detection logic configured to detect a particular class of a wireless client from the plurality of classes of wireless clients; and
 - a plurality of authentication modules, wherein the plurality of authentication modules selectively provide client specific authentication information to authenticate each of the plurality of classes of wireless clients using said unique authentication parameters,
 - wherein said unique authentication parameters comprises at least one selected from the group consisting of a browser type executing on the wireless client, ~~a type of operating system executing on the wireless client,~~ a version of the browser executing on the wireless client, and a bandwidth of the wireless client.
2. (Previously Presented) The client aware authentication system of claim 1, wherein the plurality of authentication modules are coupled to an authentication service and wherein said authentication service is for dynamically selecting an authentication service module based on the class of a client.
3. (Previously Presented) The client aware authentication system of claim 2, wherein said authentication service receives and parses client type information of the wireless clients to determine authentication characteristics of the wireless clients.
4. (Original) The client aware authentication system of claim 3, wherein the plurality of authentication modules comprises a set of predefined authentication parameters used by the

wireless server to authenticate the wireless clients with known authentication characteristics accessing the wireless server.

5. (Previously Presented) The client aware authentication system of claim 4, wherein the plurality of authentication modules further comprises authentication parameters dynamically extracted from client type information of the wireless clients accessing the wireless server.
6. (Canceled)
7. (Currently Amended) A wireless server system, comprising:
 - a plurality of authentication modules each providing respective authentication parameters pertinent to a type of client, wherein the unique authentication parameters are used to authenticate each of a plurality of wireless clients; ~~[[and]]~~
 - an automatic client detection service for automatically detecting a particular client type from the plurality of wireless clients; and
 - an authentication service, in response to receiving ~~[[a]]~~ the particular client type associated with a particular wireless device, for dynamically selecting an authentication module of said plurality of authentication modules based on said particular client type,
 - wherein the type of client is determined using at least one selected from the group consisting of a browser type executing on the wireless device, ~~a type of operating system executing on the wireless device~~, a version of the browser executing on the wireless device, and a bandwidth of the wireless device, and
 - wherein said authentication service is also for applying a selected authentication module to said particular wireless device for the authentication thereof.
8. (Canceled)
9. (Currently Amended) The wireless server system of claim ~~[[8]]~~ 7, wherein said service requests comprise header information which is used to detect said particular client type.
10. (Original) The wireless server system of claim 9, wherein said header information comprises hyper text transport protocol request headers.

11. (Original) The wireless server system of claim 10, wherein said header information comprises programmable user specific headers.
12. (Original) The wireless server system of claim 11, wherein said header information comprises client equipment manufacturer specified headers.
13. (Currently Amended) The wireless server system of claim ~~[[8]]~~ 7, wherein said plurality of authentication modules comprise:
 - a user identification module;
 - a password module;
 - a membership module;
 - a secured module;
 - a safeword module;
 - a S/key module;
 - a Microsoft Windows/NT module; and
 - a nopassword module.
14. (Original) The wireless server system of claim 13, wherein said plurality of authentication modules further comprise:
 - an LDAP authentication module;
 - a radius authentication module; and
 - a UNIX authentication module.
15. (Currently Amended) A wireless server, comprising:
 - a client aware authentication service logic;
 - a plurality of client aware authentication modules, wherein the plurality of client aware authentication modules selectively provide client specific authentication information to authenticate each of a plurality of wireless clients using unique authentication parameters; and
 - automatic client type detection logic configured to detect a particular class of a wireless client from the plurality of wireless clients,wherein said unique authentication parameters comprise at least one selected from the group consisting of a browser type executing on the wireless client, ~~a type of~~

~~operating system executing on the wireless client~~, a version of the browser executing on the wireless client, and a bandwidth of the wireless client;
a client data storage module for storing client type information for the particular class of the wireless client extracted by the automatic client type detection logic; and
a session service module for storing transient session information for a client requesting authentication to said wireless server.

16. (Original) The wireless server of claim 15, wherein the authentication service logic authenticates client attempting to access the wireless server.
17. (Previously Presented) The wireless server of claim 16, wherein the authentication service logic retrieves client type information from said client data storage module and stores the client type information in the session service module to enable the client to be authenticated by the wireless server.
18. (Original) The wireless server of claim 17, wherein the authentication modules comprise a set of predefined authentication parameters for authenticating known classes of wireless clients that access the wireless server.
19. (Original) The wireless server of claim 18, wherein the authentication modules comprise a set of dynamically extracted authentication parameters from service request headers from the wireless clients.
20. (Original) The wireless server of claim 19, wherein the authentication modules comprise selection logic to selectively choose authentication parameters in response to a client service request.
21. (Original) The wireless server of claim 20, wherein said client service request comprises hyper text transport protocol request headers.
22. (Original) The wireless server of claim 21, wherein said client service request comprises client equipment manufacturer specific headers.
23. (Original) The wireless server of claim 22, wherein said client service request includes programmable user specified headers.

24. (Currently Amended) A client aware authentication module, comprising:

a plurality of client aware characteristics modules, wherein the plurality of client aware characteristics modules provide client specific authentication information in order to authenticate a plurality of wireless clients accessing a wireless server,

wherein the wireless server is configured to provide a plurality of services to the plurality of classes of wireless clients, wherein one of the plurality of services comprises automatic client type detection logic configured to detect a particular class of a wireless client from the plurality of wireless clients,

wherein said client aware authentication module uses unique identification parameters associated with each of said plurality of wireless clients to authenticate each of the plurality of wireless clients and determine which of said plurality of client aware characteristics modules to use,

wherein the unique identification parameters comprise at least one selected from the group consisting of a browser type, ~~a type of operating system~~, a version of the browser, and a bandwidth; and

client aware authentication selection logic.

25. (Previously Presented) The client aware authentication module of claim 24, wherein said plurality of client aware characteristics modules comprise predefined set of client characteristics for authenticating known clients accessing the client aware authentication modules.

26. (Original) The client aware authentication module of claim 25, wherein said plurality of client aware characteristics modules comprise client characteristics dynamically extracted from the client run-time environment.

27. (Previously Presented) The client aware authentication system of claim 1, wherein a uniform resource locator (URL) is used to determine the plurality of authentication modules presented to each of the plurality of classes of wireless clients.